

SHEET 1 OF 5

FORM PTO-1449 U.S. Department of
Commerce (Rev. 4/92) Patent and Trademark
Office

INFORMATION DISCLOSURE
STATEMENT BY APPLICANT

(Use several sheets if necessary)

ATTY. DOCKET NO.

501.35478CX23

SERIAL NO.

Not yet assigned

APPLICANT
MIWA, et al

FILING DATE
March 29, 2004

GROUP
2818

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILE IF APPL
MS	4 9 6 4 0 7 9	10/90	Devin	365	185.03	—
	5 3 6 5 4 8 6	11/94	Schreck	365	185.03	—
	5 4 1 2 6 0 1	5/95	Sawada et al	365	185.03	—
	5 8 3 1 9 0 0	11/98	Miyamoto	365	185.03	—
	5 7 4 5 4 0 9	4/98	Wong et al	365	185.03	—
	5 5 5 5 2 0 4	9/96	Endoh et al	365	189.01	—
MS	5 1 5 1 3 8 7	9/92	Brady et al	437	191	4/30/01
	5 0 8 4 4 1 7	1/92	Joshi et al	437	192	3/13/01
	5 0 6 9 5 5 4	10/91	Spinner et al	437	193	6/23/01
	5 1 7 2 3 3 8	12/92	Mehrotra et al	365	185.03	—
	5 1 3 8 5 7 6	8/92	Madurawe	365	185.03	—
MS	5 4 8 7 0 3 6	1/96	Akaogi et al	365	185.23	—

FOREIGN PATENT DOCUMENTS

DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	ABSTRA YES
MS 5 9 1 2 1 6 9 6	7/84	Japan	—	—	XX
4 2 3 8 1 9 6	8/92	Japan	—	—	—
MS 4 5 7 2 9 4	2/92	Japan	—	—	—

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

MS	Digest of Technical Papers, ATP 2.1: A 3.3V 128Mb Multi-level NAND Flash Memory for Mass Storage Applications, T. Jung, et al., ISSCC98/Session 2/Flash Memory/Paper TP 2.1, 1998 IEEE International State Circuits Conf.
MS	Betty Prince, "Semiconductor Memories", 1983, Wiley, 2 nd Edition, pp. 620-621.

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(Form PTO-1449 (6-4))

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MT	5	6	7	7	8	6	8	10/97	Takahashi, et al	365	185	—
	5	7	6	8	1	9	3	6/98	Lee, et al	365	185.25	—
	5	7	5	7	6	9	9	5/98	Takeshima, et al	365	185.24	—
	5	7	9	6	6	5	2	8/98	Takeshima, et al	365	185.03	—
MT	5	7	5	4	4	6	9	5/98	Hung, et al	365	185.03	—
	5	7	4	8	5	3	3	5/98	Dunlap, et al	365	185.19	—
	5	7	5	4	4	7	5	5/98	Bill, et al	365	185.25	—
	5	6	8	7	1	1	4	11/97	Khan	365	185.03	—
MT	5	7	6	8	1	8	8	6/98	Park, et al	365	185.03	—
	5	4	4	0	5	0	5	8/95	Fazio, et al	365	45	—
	5	4	5	0	3	6	3	9/95	Christopherson	365	205	—
	5	1	6	3	0	2	1	11/92	Mehrotra, et al	365	185	—
	5	7	6	8	1	9	1	6/98	Choi, et al	365	185.22	—
	5	5	6	6	1	2	5	10/96	Fazio	365	45	—
	5	2	0	0	9	2	0	4/93	Norman, et al	365	185	—
	5	6	7	5	5	3	7	10/97	Bill, et al	365	185.22	—
MT	4	8	6	0	2	5	8	8/89	Fruhauf, et al	365	194	—

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df	5 9 1 5 1 0 5	6/99	Farmwald et al			
	6 0 3 8 1 6 5	3/00	Miwa	365	185.03	
	4 4 3 5 7 8 6	3/84	Tickle	365	185	
df	5 6 9 4 3 5 7	12/97	Mori	365	185.03	

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLAS S	ABSTRACT	
						YES	NO
df	6 2 6 4 9 3	2/87	Japan	—	—	XX	
	6 2 3 4 3 9 8	2/87	Japan	—	—	XX	
	6 2 2 5 7 6 9 9	11/87	Japan	—	—	XX	
	6 2 2 9 8 9 9 9	12/87	Japan	—	—	XX	
	6 3 2 7 6 7 9 1	11/88	Japan	—	—	XX	
	2 4 0 1 9 8	2/90	Japan	—	—	XX	
	2 2 6 0 2 9 8	10/90	Japan	—	—	XX	
	3 2 3 7 6 9 2	10/91	Japan	—	—	XX	
	4 5 7 2 9 4	2/92	Japan	—	—	XX	
df	4 1 8 4 7 9 4	7/92	Japan	—	—	XX	
	4 2 3 8 1 9 6	8/92	Japan	—	—	XX	
	0 6 1 3 1 8 8 1	5/94	Japan	—	—	XX	
	0 6 1 9 5 9 8 7	7/94	Japan	—	—	XX	
df	0 6 2 6 7 2 8 5	9/94	Japan	—	—	XX	

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def	5 3 2 7 3 9 0	7/94	Takasugi	365	230	—
	5 4 7 3 5 7 0	12/95	Sato et al	365	221	—
	6 0 1 1 8 8 0	1/00	Tani et al	382	312	—
	6 3 6 6 4 9 5	4/02	Miwa et al	365	185.03	—
	6 4 5 9 6 1 4	10/02	Miwa et al	365	185.03	—
ms	6 0 4 4 0 3 1	3/00	Iadanza et al	365	230.03	—

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	DOCUMENT NUMBER								DATE	COUNTRY	CLASS	SUBCLASS	ABSTRACT	
													YES	NO
def		1	2	7	3	2	9	4	11/89	Japan			XX	
	0	7	0	5	7	4	8	4	3/95	Japan			XX	
	0	2	1	5	4	9	7			Japan				X
	0	6	3	0	9	8	9	0	11/94	Japan			XX	
	0	1	2	3	8	4	2		9/79	Japan				
		1	1	3	4	7	9	3	5/89	Japan				X
		5	2	1	0	9	9	1	8/93	Japan			XX	
		6	2	5	1	5	9	1	9/94	Japan				X
ms		7	9	3	9	7	9		4/95	Japan			XX	
		2	0	4	0	1	9	8	2/90	Japan			XX	

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MT	5 2 9 7 0 2 9	3/94	Nakai et al	365	238.5	—
	4 6 9 2 8 8 6	9/87	Miki et al	364	718	—
	5 4 2 2 8 5 8	6/95	Mizukami et al	365	233	—
	5 5 3 9 6 8 8	7/96	Yiu, et al	365	185.14	—
	5 5 4 4 0 9 9	8/96	Hara	365	185.19	—
MT	5 6 7 7 8 6 9	10/97	Fazio, et al	365	185.03	—
	5 6 1 5 1 5 3	3/97	Yiu, et al	365	185.19	—

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					YES NO
MT 0 6 2 8 2 9 9 2	10/94	Japan			XX
MT 0 7 1 6 1 8 5 2	6/95	Japan			XX
MT 0 6 0 7 6 5 8 6	3/94	Japan			XX

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	5 4 1 2 6 0 1	5/95	Sawada et al	365	185.03	—
	5 8 3 1 9 0 0	11/98	Miyamoto	365	185.03	—
	5 7 4 5 4 0 9	4/98	Wong et al	365	185.03	—
	5 5 5 5 2 0 4	9/96	Endoh et al	365	189.01	—
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	5 0 6 9 5 5 4	10/91	Spinner et al	437	193	6/23/01
	5 1 7 2 3 3 8	12/92	Mehrotra et al	365	185.03	—
	5 1 3 8 5 7 6	8/92	Madurawe	365	185.03	—
MT	5 4 8 7 0 3 6	1/96	Akaogi et al	365	185.23	—

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4 2 3 8 1 9 6	8/92	Japan	—	—	—
MT 4 5 7 2 9 4	2/92	Japan	—	—	—

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MT	Digest of Technical Papers, ATP 2.1: A 3.3V 128Mb Multi-level NAND Flash Memory for Mass Storage Applications, T. Jung, et al., ISSCC96/Session 2/Flash Memory/Paper TP 2.1, 1996 IEEE International State Circuits Conf.
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